



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D.C., 20460

OFFICE OF
PREVENTION, PESTICIDES AND TOXIC
SUBSTANCES

August 8, 2005

MEMORANDUM

Subject: Additional Background Information for the Science Advisory Panel (SAP)
Regarding Data Used in the Residential Section of the Preliminary N-
Methyl Carbamate Cumulative Risk Assessment.

To: Joe Bailey, Designated Federal Official
FIFRA SAP
Office of Science Coordination and Policy (7101C)

From: David Miller
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Through: George Herndon, Associate Director
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The attached table provides further details on the studies which were considered in the SRA Presentation Entitled, Available Micro-Activity Data and their Applicability to Aggregate Exposure Modeling. (Valerie Zartarian *et al.* December 2003). This presentation was used in the evaluation of residential exposure for the Preliminary N-Methyl Carbamate Cumulative Risk Assessment. The information supplied in this memorandum should be considered additional background information for the SAP for discussion of Question #2 in the residential section of the questions.

Author	No. Subjects	Description	Videotape time	Median frequency/Other Information
Black et al., 2003	52 children in Laredo, TX	13 infants; 12, one year olds; 18 two year olds; 9 preschool) living in the vicinity of Rio Bravo, Texas	Four hour videotaped observations	indoors 13.5/hour and 4.9/hour outdoors
Tulve et al., 2002	72 urban Washington State children	ages 11 to 60 months	No video-tape (parental and trained observers). Observations for more than one day were available for 78% of the children".	Mean – 16 hand to mouth contacts per hour
Freeman et al., 2001	19 children	ages 3 to 6 years living in Minnesota	Four hour videotaped observations	Median 3.5 hand to mouth contacts/hour, 3-4 years Median 2.5 contacts/hour, 5-6
Reed et al., 1999	30 urban children living in Newark, NJ	A total of 20 day care (3-6 yrs) and 10 at home (2-5 years)		Mean hand to mouth frequency 9.5 contacts per hour
Zartarian et al., 1998	4 Latino children in agricultural area in California		Single day videos (6, 7, 8, 10 waking hours)	Mean = 9.5 events/hr.
Letkie et al., 2000	Video observations of suburban children ages 1 to 6 years of age.		33-34 hours of children "in view"	These data were used to enumerate area of hand mouthed; Median: 2.3 hand to mouth contacts/hour; mean: 7.3 contacts/hour